

Title (en)  
PRESSURE-BALANCED, CATALYZED SOOT FILTER

Title (de)  
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Title (fr)  
FILTRE A SUIE CATALYSEE A PRESSION EQUILIBREE

Publication  
**EP 1797288 B1 20151111 (EN)**

Application  
**EP 05795447 A 20050908**

Priority  

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- US 60968204 P 20040914
- US 21884005 A 20050902

Abstract (en)  
[origin: US2006057046A1] The invention provides a catalyzed soot filter formed on a wall flow substrate having internal walls coated with catalyst compositions. The soot filter maintains a homogeneous flow of the exhaust gases through the internal walls of the substrate along the length of the filter due to the coating design. Both the efficiency and the durability of the catalytic function are increased over conventionally designed catalyzed soot filters. The catalyzed soot filter provides an integrated function for simultaneously treating the gaseous components of the exhaust (e.g., CO and HC) and the particulate matter deposited in the filter.

IPC 8 full level  
**B01D 53/94** (2006.01); **B01J 23/40** (2006.01); **B01J 23/42** (2006.01); **B01J 23/63** (2006.01); **B01J 29/068** (2006.01); **B01J 35/00** (2006.01); **B01J 35/04** (2006.01); **B01J 37/02** (2006.01); **F01N 3/022** (2006.01); **F01N 3/035** (2006.01)

CPC (source: EP KR US)  
**B01D 53/94** (2013.01 - KR); **B01D 53/944** (2013.01 - EP US); **B01J 23/40** (2013.01 - EP US); **B01J 23/42** (2013.01 - EP US); **B01J 23/63** (2013.01 - EP US); **B01J 29/068** (2013.01 - EP US); **B01J 35/19** (2024.01 - EP US); **B01J 35/56** (2024.01 - EP US); **B01J 37/0248** (2013.01 - EP US); **F01N 3/022** (2013.01 - KR); **F01N 3/0222** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **B01D 2255/1021** (2013.01 - EP US); **B01D 2255/2066** (2013.01 - EP US); **B01D 2255/407** (2013.01 - EP US); **B01D 2255/9022** (2013.01 - EP US); **B01D 2255/9155** (2013.01 - EP US); **F01N 2510/06** (2013.01 - EP US)

Citation (opposition)  
Opponent : Johnson Matthey Public Limited Company  

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